

Methodology of the Preparation of Cellulose Gel Porous Structure.

Part A: Preparation of cellulose gel structure by controlling the  
magnitude of variation of gelling time and the nature of  
tributary cellulose liquid. Coll. phys. 27 no. 6: 24-320. Feb. 1965.  
(u) (c) 12-12)

1. Invention originated by Kondo, Ikuo, Ueda, Toshio. Filed 1960.  
Priority claimed August 10, 1964.

STAS, W.

Application of the method of Turan to the theory of the remainder in the theorem of prime ideal. p. 179.

ACTA ARITHMETICA. (Polska Akademia Nauk. Instytut Matematyczny) Warszawa, Poland.  
Vol. 5, no. 2, 1959

Monthly List of East European Accessions (EEAI) LC, Vol. 9, no. 2, Feb. 1960

Uncl.

STAS W

PHASE I BOOK EXPLOSION

TUL/5733

Polskie Towarzystwo Matematyczne

Prace Matematyczne (Mathematical Transactions) Warsaw, Państwowe Wydawn. Naukowe, 1961. 146 p. (Series: Its: Roczniki. Seria I., [no] 5)  
1,150 copies printed.

Editorial Board: Chief Ed.: Włodzimierz Orlicz; Deputy Chief Ed.: Magedi Skarik, Adam Bielicki, Witold Bogdonowicz, Stanisław Golab, Jerzy Górecki, Stanisław Hartman; Secretary: Julian Misiołek, Zbigniew Serafini, Krzysztof Tarczakiewicz.

PURPOSE: This book is intended for mathematicians.

CONTENT: This is a collection of 14 articles on the theory of functions, theory of numbers, theory of series, functional analysis, differential equations, and their applications to hydrodynamics and thermodynamics. No personalities are mentioned. References follow each article.

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MATHEMATICAL TRANSACTIONS

POL/5733

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## Mathematical Transactions

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Card 3/4

Polish Mathematical Transactions

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137

ACQUISITION: Library of Congress

Card 4/4

AC/mn/mrc  
11-6-61

STAS, W. (Poznan)

On the reversal of an Ingham's theorem. Acta arithmetica 6 no.4:  
435-446 '61.

1. Uniwersytet Im. Adama Mickiewicza w Poznaniu.

STAS, W. (Poznan)

On a certain estimation of the remainder in a theorem. Rocz prace  
matem 5:53-60 '61.

KNAPOWSKI, S. (Poznan); STAS, W. (Poznan)

A note on a theorem of Hardy and Littlewood. Acta arithmetica 7  
no. 2;161-166 '62.

STAS, W. (Poznan)

On the behavior of Riemann's  $\zeta$ -function and some related functions in  
the vicinity of the straight line  $\sigma = 1$ . Acta arithmetica 7 no. 2:217-224  
'62.

STAS, W.

The theory of the Möbius  $\mu$  - function. Acta arithmetica 7 no.4:  
409-416 '62.

1. Uniwersytet im. Adama Mickiewicza, Poznan.

KNAPOWSKI, S.; STAS, W. (Poznan)

Another note on Hardy-Littlewood's theorem. *Acta arithmetica*  
8 no.2:205-212 '63.

STAS, W.

On a series of Ramanujan. Acta arithmetica 8 no.3:261-271  
'63.

1. Uniwersytet im. Adama Mickiewicza, Poznan.

SŁTAS, W. (POZNAN)

Some remarks on a series of Ramanujan. Acta arithmetica 15  
no.4;359-368 '65.

1. Mathematical Institute of the Adam Mickiewicz University,  
Poznan. Submitted February 8, 1964.

STAS, Z.N.

Mbr., Hospital Surgical Clinic, Khabarovsk Med. Inst., -cl948-. "Value of Tests in Determining the Activity of the Physiological System of Connective Tissues," Klin. Med., 26, No. 7, 1948.

S/TAS L.V.  
DYKHNO, A.M., professor; STAS', Z.N.

Problem of the formation of an artificial vagina. Akush.i gin. no.1:  
60-61 Ja-F '54. (MLRA 7:6)

1. Iz gospital'noy khirurgicheskoy kliniki (direktor - professor  
A.M.Dykhno) Krasnoyarskogo meditsinskogo instituta.  
(Vagina)

STASA, J.

"Socialist Competition Is in Full Progress." p. 252 (Stavební Prumysl, Vol. 3,  
no. 11, June 1953, Praha)

SO: Monthly List of East European Accessions, Vol. 3, no. 2, Library of Congress,  
Feb. 1954, Uncl.

Country : Poland  
Category : Farm Animals. The Honeybee. Q-5  
Year : 1959  
Mag. : RZBiol., No. 4, 1959, No. 16760  
Author : Stasalek, Stanislaw  
Institution :  
Title : The Reduction of the Winter Losses in Bees.

Period. Pub. : Pszczelarstwo, 1958, 9, No 1, 13-15

Abstract : Bees that spend the winter at liberty use approximately 3 kg more feed than in a winter-house. Supplementary fall feeding should be given early in order to utilize old bees and the warmth necessary for the quicker digestion of the sugar which had been fed to the bees. When the supplementary feeding consisted of a 40 percent sugar solution, the losses amounted to 55 percent; when it consisted of a 70 percent sugar solution, to 8.55 percent. The most

Serial: 1/2

STASUSKAITA, S.

Dynamics of vitamin C in buds, leaves, and fruits of some species of apples.  
p. 1.1

Lietuvos TSR Mokslu akademija. Biologijos institutas. DARBAI. Vilnius  
Volume, 3, 1958  
Lithuanian, Poland

Monthly List of East European Accession (EEAI) LC, Vol. 9, no.1, Jan. 1960

Uncl.

STASauskaite, S.

SCIENCE

PERIODICAL: DARBAI. SERIJA B. TRUDY. SERIIA B. No. 3, 1958

Stasauskaite, S. Distribution and dynamics of ascorbic acid in the fruit  
of some apple trees. p. 253.

Monthly list of East European Accessions (EEAI) LC, Vol. 8, No. 2,  
February 1959, Unclass.

, MUSEKAITÉ, S.; HOLCMANAITE, M.

Steeping corn seed in some microelement solutions before planting.  
Liet ak darbai B no.4:181-192 '59 (EKAI 9:3)

1. Lietuvos TSR Mokslu akademijos Biologijos institutas.  
(Corn (Maize))

*Stašek, Pavel*

Stašek, Pavel. Über die Flächen, deren Krümmungslinien  
sich auf eine Ebene in gegebene Kurven zentral proll-  
zieren. Věstník Královské České Společnosti Nauk.  
Třída Matemat.-Přírodrověd. 1940, 13 pp. (1940). (Ger-  
man. Czech summary) [MF 16122]

Consider a surface  $\sigma$  and a fixed point  $S$  on the  $z$ -axis. By projecting, through the point  $S$  and onto the  $(x, y)$ -plane, the points on the lines of curvature of  $\sigma$ , one obtains two families of curves in the  $(x, y)$ -plane. The author's problem is to determine all surfaces for which the two congruences of  $(x, y)$ -plane curves are orthogonal. It is shown that the solution of this problem depends upon the solution of a system consisting of a linear second order partial differential equation and a nonlinear first order partial differential equation. Because of the complexity of the system, the author considers only two special cases: (1) the congruences consist of circles with origin as center and radial lines; (2) the system consists of two families of confocal conics. In each of these cases, the surfaces are determined. In the second part of the paper, the author applies tensor calculus to the problem in an effort to determine the relation between the fundamental tensors of the surface and the net in the  $(x, y)$ -plane. However, due to an error in the equations defining the projectivity, the author solves the problem for the case where the center of projectivity undergoes some undetermined variation.

N. Coburn.

Source: Mathematical Reviews,

Vol. 8, No. 2

STASEK, Rudolf

Examination of the chemical process in the VZKG G 230 boiler.  
Energetika Cz 12 no.8:422-425 Ag '62.

1. Elektrarna Opatovice.

STASEK, Rudolf

Determining of raw water penetration into operational cycle caused  
by condenser leakage. Energetika Čz 13 no.6:313-318 Je '63.

1. Elektrárna Opatovice.

STASEK, Rudolf

Determining the iron content in feed water. Energetika Cz 13  
no.5:264-266 My '63.

1. Elektrarna Opatovice.

STASEK, V.

FLUSSER, J; CHVOJKOVA, V; STASEK, V; SKACH, M; ZABKA, J; BALIK, J.

Mucous membrane manifestations in iron deficiency. Cas. lek.  
cesk. 89 no.50:1410-1414 15 Dec 50. (CIML 20:4)

1. Of the Third Internal Clinic (Head--Prof. Josef Charvat).
2. Of the Radiological Clinic (Head--Prof. Vaclav Svab).
3. Of the Second Stomalogical Clinic (Head--Prof. Fr. Neuwirt).
4. Of the Otolaryngological Clinic (Head--Prof. A. Precechtel).
5. Of the First Eye Clinic (Acting Head--Docent E. Dienstbier).

STASEK, Vladimir

Soviet oncology based on the Pavlovian theory. Cas.lek.cesk. 91  
no.35:1014-1017 29 Aug 52.

1. Z radiologické kliniky K U. Prednosta: prof. dr. V.Svab.  
(NEOPLASMS,  
Pavlovian theory in oncol.)

STASEK, Vladimir

Dillon method of roentgenotherapy of intrathoracic tumors  
according to Soviet literature; review. Cesk. onkol. 2 no.4:  
371-377 1955.

1. Radiologicka klinika Karlovy university v Praze.  
(THORAX, neoplasms,  
x-ray ther., Dillon method, review. (Cz))  
(RADIOTHERAPY, in various diseases,  
cancer of thorax, Dillon method, review.(Cz))

*STASEK V.*

EXCERPTA MEDICA Sec.14 Vol.11/3 Radiology Aug57.

1356. STASEK V. U nemocnice 2, Praha 2. \*Pathofisiologie nemoci z ozáření.  
The pathophysiology of radiation disease ČAS. LÉK. ČES. 1956,  
95/36 (984-991) Tables 1

Irradiation of the live organism is a disturbing interference with its functional and structural integrity. The organism constituting a complex unit directed and co-ordinated by neurohumoral regulation, responds to irradiation by a disturbance of functional manifestations and structural changes of the various organs and systems.. It is thus an essentially complex process, though no doubt some of the disturbances play an extraordinary role in the origin of the disease. On the assumption that the significance of the irradiation during the first stage is one of non-specific stress in the sense of the general adaptation syndrome, it may be admitted that the basic response is effected by a neurohumoral route via the midbrain-pituitary-suprarenal cortex system. In Charvát's interpretation the alarm reaction itself is a nervous phenomenon; to enable its passage hormones of the suprarenal cortex adjust in some hitherto unknown way the receptivity of the tissues to the nervous impulse. During the phase of late manifestations signs of tissue depression are in the foreground. The active mesenchyme and the state of the natural defences of the organism significantly enter into the various phases of irradiation disease; this circumstance is considered, for the time being experimentally, as one of the possibilities of biological protection. The explanation of the physiological mechanism of action of irradiation is aided by irradiation experiments under changed external conditions, e. g. irradiation in anoxia and hypothermia. A study of the abundant material of both wartime explosions in Japan, accidental as well as experimental incidents, laboratory work and clinical observations, have added much valuable new knowledge on the pathophysiology of irradiation disease. Intensive research in this

1356

CONT.

direction continues to make rapid headway, nevertheless numerous problems, amongst others the mechanism of development of late changes, remain unclear and in many respects still unanswered.

STASEK, Vladimir

A sieve method for roentgen irradiation of malignant neoplasms.  
Clinical studies on the effect of ionizing radiations on tumor  
tissue. Acta Universitatis Carolinas, Medica 5:225-250 1959.

1. Z radiologicke kliniky fakulty vseobecneho lekarstvi, prednosta  
prof. MUDr. Vaclav Svab a z onkologicke laboratore fakulty vseobec-  
nego lekarstvi, prednosta doc. MUDr. J. Venta.  
(NEOPLASMS radiother.)

EXCERPTA MEDICA Sec 14 Vol 13/8 Radiology Aug 59

1652. A BEAM DIRECTOR FOR SMALL FIELD X-RAY THERAPY -  
Stášek Vl., Lokajíček M., Haberzettel V. and Živný J.  
Oncol. Lab., Radiol. Clin., 1st Stomatol. Clin., Fac. of Gen. Med.,  
Charles Univ., Prague - BRIT.J.RADIOL. 1959, 32/374 (138-140)  
Illus. 5  
(XIV, 5, 16)

TEICHMANN, V.; BOREK, Z.; STASEK, V.; VALKO, P.

Parietography of the esophagus, A contribution to the differential diagnosis of primary and secondary tumors of the mediastinum.  
Neoplasma, Bratisl. 7 no.2:193-201 '60.

I. II. Interne Klinik, II. Chirurgische Klinik, Radiologische  
Klinik und Oto-Rhino-Laryngologische Klinik der Karls-Universitat,  
Prag, CSR.

(MEDIASTINUM neopl)  
(ESOPHAGUS neopl)

STASEK, Vladimir; LOKAJICEK, Milos; JAKOUBKOVA, Jaroslava. Techn.spolupr.: .  
A.Nebranska.

Studies on a gonad-dose in roentgeno-therapy of selected non-neoplastic diseases. Cesk. rentg. 14 no.1:1-4 F '60.

1. Radiologicka klinika KU, prednosta prof. MUDr. V. Svab,  
Onkologicka laborator fakulty vseob. lekarstvi, reditel doc. MUDr.  
J. Venta.

(RADIOTHERAPY)  
(GONADS radiation eff.)

STASEK, Vladimír; JAKOUBEKOVÁ, Jaroslava

Considerations on roentgenotherapy of non--neoplastic diseases  
with special reference to late changes. Cas.lek.cesk.99 no.38:  
1220-1224 16 S'60.

1. Onkologicka laborator v Praze, reditel prof.dr. J.Venta.  
Radiologicka klinika EU, Praha, prednosta prof.dr. V.Svab.  
(RADIOTHERAPY compl)

STASEK, VLADIMIR



**APPROVED FOR RELEASE: 08/25/2000**

CIA-RDP86-00513R001653010012-2"

LOKAJICEK, M.; JAKOUBKOVA, J.; STASEK, V.; technicka spoluprace:  
NEBRENSKA, A.

Gonadal dosage in the treatment of non-tumorous diseases with  
x-irradiation (Dosimetric study). Cesk. rentgenol. 16 no.1:  
30-35 F '62.

1. Vyzkumny zavod Tesia-Premysleni Radiologicka klinika a onkologicka  
laborator FVL KU.  
(GONADS radiation effects) (RADIOTHERAPY)

ČKOLAR, Jaromír; STASEK, Vladimír; BEK, Václav; KOHOUT, Jan

Contribution to tumors of the heel bone. Česk. rentgenol. 16 no.2:  
121-126 Ap '62.

1. Radiologicka klinika fakulty všeobecného lekarství Karlovy univerzity v Praze, prednosta prof. dr. V. Svab.

(CALCANEUS neopl)

STASEK, V.

5

CZECHOSLOVAKIA

STASEK, V., Docent MD; JAKOUBKOVA, J., MD; KOLAR, J., MD;  
LOKAJICEK, M., Dr., Radiologist; BRACHFELD, K., MD;  
TICHY, S., MD.

1. Oncological Laboratory FVL (Onkologicka laborator FVL),  
Prague; 2. Radiological Clinic FVL (Radiologicka klinika  
FVL), Prague (for Lokajicek); 3. Research Institute  
and Development Institute (Vyzkumny a vývojovy zavod),  
Praha; 4. Second Pediatrics Clinic, ORL Laboratory  
CSAV (II. pediatricka klinika, ORL laborator CSAV),  
Prague

Prague, Prakticky lekar, No 2, 1963, pp 71-73

"The Effect on the Patient of X-Ray Therapy."

VICH,Z.; HAVRANKOVA, N.; STASEK, V.

Clinical experiences with telegammatherapy with the Theratron junior with particular reference to the treatment of bronchogenic carcinoma. Cesk. radiol. 19 no.3:194-201 My '65

1. Radiologicka klinika (prednosta: prof. dr. V. Svab, DrSc.) a onkologicka laborator (vedouci: prof. dr. J. Venta) fakulty vseobecneho lekarstvi v Praze.

STASEK, V.; JAKOUBKOVÁ, J.; KOLÁŘ, J.; BUDÍČEK, K.; TICHÝ, S.;  
LOKAJICKÝ, M.; MLYN, V.; Technická spolupráce MESEKUSKÁ A.

Study of late changes following small doses of radiation in  
the developing organism. Česk. pediat. 10 no.7:561-571 Jl  
'65.

I. Onkologická laboratoř, radiobiologická klinika fakulty vše-  
obecného lekarství Karlovy University v Praze, II. pediatrická  
klinika fakulty dětského lekarství Karlovy University v Praze,  
Otorinolaryngologická laboratoř Československé akademie věd  
v Praze; Výzkumný ústav a.p. fysika v Praze, Ústav ser a  
cukrovacích lutek v Praze.

S/081/62/000/009/021/075  
B158/B101

AUTHORS: Gumenyuk, A. G., Sera, T. Ya., Stasenko, A. G.

TITLE: The absorption spectrum of silver halide exposed to monochromatic light

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 9, 1962, 76, abstract 9B524 (Nauchn. yezhegodnik. Odessk. un-t. Fiz.-matem. fak. i N.-i. in-t fiz., no. 2, Odessa, 1961, 157 + 158)

TEXT: The absorption spectrum of a fine-grain AgCl emulsion exposed to monochromatic light of  $\lambda = 313, 336, 405$  and  $436 \text{ m}\mu$  was studied. This was found to be little dependent on  $\lambda$  of the acting light. The same bands were observed in it as for emulsions exposed to full radiation from a Hg lamp. The positions of the band maxima lying in the short wave region of the spectrum completely coincided, whereas the maximum of the band in the long wave region was somewhat displaced towards long  $\lambda$ . Preparations of AgBr dust, in contrast to emulsion layers, often show areas with "inverted" spectral curves (Sera, T. Ya., Sb. Fiz.-matem. fak-ta OGU, 1951). [Abstracter's note: Complete translation.]

Card 1/1

35793

S/120/62/0007001/041/061  
E039/E520

24.3430

AUTHORS: Sura, T.Y. and Stasenko, A.G.

TITLE: On the question of obtaining a "vacuum creeping spark"

PERIODICAL: Prihory i tekhnika eksperimenta, no.1, 1962, 167-169

TEXT: In the vacuum ultraviolet region of the spectrum a number of different sources are used in spectral analysis. These are: the normal gas discharge; high and low frequency gas discharges; and contact sparks. The so-called "vacuum creeping spark" comes in the last category and it consists of a spark discharge over the surface of a dielectric or semiconductor between two metal electrodes, the whole system being in a vacuum. A lower voltage than that used with the H.F. discharge is required. The source described in this article makes use of a standard condenser spark generator M-2 or 3 (IG-2 or 3) (13 kV) as a power supply. In order to obtain a stable discharge it is essential to have a good contact between the electrodes and the dielectric. This is done by forcing aluminium electrodes into the ends of a porcelain tube of length 50 mm, internal diameter 10 mm and external diameter 20 mm. A 10 mm diameter aperture is drilled in the side

Card 1/2

On the question of ...

S/120/62/000/001/041/061  
E039/E520

of this tube perpendicular to its axis, thus exposing the gap between the electrodes (about 1.5 mm). The electrodes are cut in such a way that the discharge passes over the internal surface of the porcelain tube opposite to the aperture. The tube with its electrodes is mounted on an insulated support inside a vacuum chamber which is attached to a vacuum spectrograph. The voltage to the electrodes is carried through high voltage vacuum seal inserts and the position of the spark can be adjusted to lie on the optical axis of the spectrograph. Part of a spectrogram obtained using this source with aluminium electrodes is shown. The spectrum was recorded on X-ray film sensitized with an alcoholic solution of sodium salicylate using a ДФС -6 (DFS-6) spectrograph (exposure 90 min). This spectrograph was calibrated over the range 500 to 2000 Å using the source described. There are 2 figures.

ASSOCIATION: Odesskiy gosudarstvennyy universitet  
(Odessa State University)

SUBMITTED: May 15, 1961  
Card 2/2

L 17092-65 AFWL/SSD(a)/AS(mp)-2/ASD(a)-5/BSD/APCC(b)/ESD(dp)/ESD(gs)/ESD(t)

ACCESSION NR: AP4048414

S/0181/64/006/011/3361/3363

AUTHOR: Sera, T. Ya.; Stasenko, A. G.

B

TITLE: On the absorption spectrum of cadmium sulfide in the vacuum ultraviolet region and the associated transitions

SOURCE: Fizika tverdogo tela, v. 6, no. 11, 1964, 3361-3363

TOPIC TAGS: absorption spectrum, cadmium sulfide, thin film, optical transition, crystal lattice structure

ABSTRACT: The purpose of the study was to go beyond the hitherto investigated quantum-energy range, namely above 6 ev. The intrinsic absorption of Cds in the vacuum ultraviolet region was investigated with apparatus based on a DFG-6 vacuum spectrograph, the calibration of which was described by the authors elsewhere (PTE No. 1, 167, 1962). The absorption of cadmium sulfide was measured on thin films sublimated in vacuum on single-crystal lithium-fluoride sub-

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L 17092-65

ACCESSION NR: AP4048414

strates. The same films were used to measure the absorption in the vacuum ultraviolet region and at longer wavelengths. The effect of reflection was eliminated by taking x-ray photographs of two films of different thickness on the same x-ray plate. The measured spectrum is shown in Fig. 1 of the enclosure. The increase in absorption at energies exceeding 8.3 ev is attributed to excitation of the 3s-electrons of the sulfur in the CdS. Absorption bands with maxima near 7.95 and 9.95 ev have been observed and are attributed to transitions between levels due to the Cd atoms and Cd<sup>+</sup> ions, respectively, making up the CdS crystal lattice. The transformations of these levels in the field of the crystal lattice of CdS, which has the symmetry of wurtzite, are described. Orig. art. has: 2 formulas and 1 figure.

ASSOCIATION: Odesskiy gosudarstvennyy universitet (Odessa State University)

SUBMITTED: 03Jun64

ENCL: 01 SUB CODE: SS, OP

NO REF SOV: 011

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Card 2/3

L 17092-65

ACCESSION NR: AP4048414

ENCLOSURE: 01

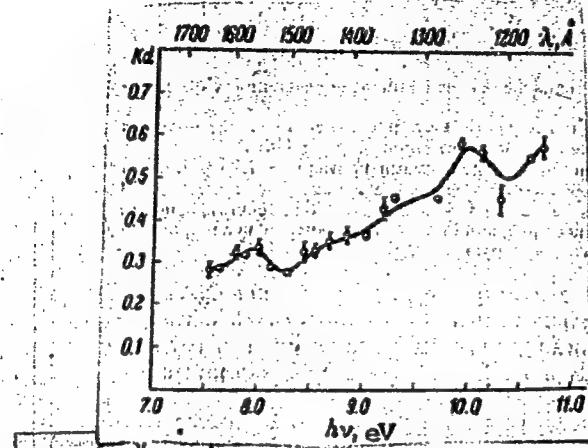


Fig. 1. Spectrum of intrinsic absorption of cadmium sulfide in the vacuum ultraviolet region

Card 3/3

L 33593-66 EWT(m)/EWP(t)/ETI IJP(c) JD

ACC NR: AR6016202

SOURCE CODE: UR/0058/65/000/011/D035/D035

AUTHORS: Sera, T. Ya.; Stasenko, A. G.

45

TITLE: Absorption spectrum of CdS in the vacuum ultraviolet region  
*v1 ~ v2*

B

SOURCE: Ref. zh. Fizika, Abs. 11D270

REF SOURCE: Tr. Komis. po spektroskopii. AN SSSR, t. 3, vyp. 1, 1964, 495-502

TOPIC TAGS: absorption spectrum, cadmium sulfide, uv band, spectrographic analysis

ABSTRACT: Results are presented of measurements of the absorption spectrum of CdS in the vacuum ultraviolet region. The measurements were made with apparatus built around a vacuum spectrograph with a radiation source consisting of a hydrogen discharge tube with a capillary. The CdS absorption was measured with thin films sublimated on single-crystal LiF plates. The absorption spectrum of these compounds in the longer-wavelength region agrees with the data obtained by others. In the short-wave part of the investigated vacuum ultraviolet region the absorption of CdS increases. [Translation of abstract]

SUB CODE: 20

Card 1/1

82

STASENKO, Alekseandr Ivanovich; KARPECHENKO, M.S., dotsent, kand.tekhn.  
nauk, otv.red.; SAGITULLINA, R.I., tekhn.red.

[Flow of a trickling liquid from a nozzle. Motion of liquids  
through a grating. (Second lecture in a course of hydraulics)]  
Istechenie kapel'noi zhidkosti iz nasadka. Dvizhenie zhidkosti  
v reshetke; lektsiiia vtoraiia po kursu gidravliki. Moskva,  
Ugletekhizdat, 1959. 29 p. (MIR 13:8)  
(Hydraulics)

STASENKO, Aleksandr Ivanovich; KARPECHENKO, M.S., ovt.red.; SAGITULLINA,  
R.I., tekhn.red.

[Gas flow from a hole in a thin wall. Determination of the reaction force during the flow of gas from a hole; third lecture in a course on hydraulics] Istechenie gaza iz otverstiia v tonkoi stenke. Opredelenie reaktivnoi sily pri istechenii gaza iz otverstiia; lektsiia tret'ia po kursu gidravliki. Moskva, Ugletekh-izdat, 1959. 33 p.  
(Fluid dynamics)

STASENU, A.L. (Moskva)

Shape of a flexible string in the field of centrifugal forces. Izv.AN  
SSSR.Otd.tekh.nauk.Mekh.i mashinostr. no.6:122-124 N-D '62.  
(MIRA 15:12)

(Elastic rods and wires)

STASENKO, A. L.; GRODZOVSKIY, G. L.

"On the contour of radiating elements part III; the form of a flexible thread  
is the centrifugal roce field."

report to be submitted for the 14th Cong, Intl Astronautics Federation, Paris,  
25 Sep-1 Oct 63.

STASENKO, A.L. (Moscow)

"Equilibrium forms and small oscillations of a flexible string rotating in a  
forceless field"

Report presented at the 2nd All-Union Congress on Theoretical and Applied  
Mechanics, Moscow 29 Jan - 5 Feb 64.

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001653010012-2

GRODZOVSKIY, G. L.; STASENKO, A. L.; FROLOV, V. V.

"On the shape of heat rejection elements cooled by radiants."

report submitted for 15th Intl Astronautical Cong, Warsaw, 7-12 Sep 64.

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001653010012-2"

ACCESSION NR: AP4018441

S/0179/64/000/001/0174/0179

AUTHOR: Stasenko, A. L. (Moscow)

TITLE: Equilibrium forms and small oscillations of a flexible filament rotated in a forceless field

SOURCE: AN SSSR. Izv. Otd. tekhn. nauk. Mekhanika i mashinostroyeniye, no. 1, 1964, 174-179

TOPIC TAGS: radiator, space radiator, filament radiator, ribbon radiator, belt radiator, thermal radiator, space vehicle radiator

ABSTRACT: In an earlier work (See Stasenko, A. L., Forma gibkoy niti v pole tsentrobezhnykh sil, Izv. AN SSSR, OTN, Mekhanika i mashinostroyeniye, 1962, 6) there was a determination of the equilibrium form of a free flexible ribbon rotated in a forceless field and flattened by centrifugal force to the surface of the cylinder being cooled. The present work is dedicated to a study of all the equilibrium forms of a rotating flexible filament (including forms with points of self-intersection), determination of the conditions of its convexity and also a study of the equations of small oscillations of the filament with respect to the equilibrium form. Orig. art. has: 7 figures, 53 formulas.

Card 1/1

ACCESSION NR: AP5007801

S/0281/65/000/001/0143/0148

1

B

AUTHOR: Stasenko, A. L.

TITLE: Limiting characteristics of a belt radiator in the presence of self-irradiation

SOURCE: AN SSSR. Izvestiya. Energetika i transport, no. 1, 1965, 143-148

TOPIC TAGS: belt radiator, belt self-irradiation, optimum belt radiator

ABSTRACT: Several investigators (see, e.g., L. Shipper, R. G. Siegler, E. B. Zwick, Advanced 1-megawatt space power plant study, AIAA Paper no. 63-270, 1963) have studied belt radiators without investigating the effects self-irradiation may have on the properties of such a radiator. At most, they have claimed that making a Möbius leaf-shaped radiator reduces its self-exposure. In the present paper, by means of numerous diagrams, the author presents the limiting characteristics (mass, characteristic lengths, and temperatures) of moving belt radiators corresponding to two extreme cases: 1) when self-irradiation is neglected, and 2) when a belt of arbitrary finite width is completely "flattened". This supplies the upper and lower boundaries for the behavior of belts of arbitrary shape, and allows the choice of optimum belt parameters. Orig. art. has: 13 formulas and 12 figures.

Card 1/2

ACCESSION NR: AP5007801

ASSOCIATION: None

SUBMITTED: 22Feb64

ENCL: 00

SUB CODE: TD , NP

NO REF SOV: 000

OTHER: 004

Card 2/2

STASENKO, A.L. (Moskva)

Two-dimensional periodic contact. Contact resistance with  
allowance for secondary fluxes in the general case. PMTF  
no.4:35-41 J1-Ag '64. (MIRA 17:10)

STASENKO, A.L. (Moskva)

Threshold characteristics of a belt radiator with consideration  
of self-irradiation. Izv. AN SSSR. Energ. i transp. no.1:143-148  
Ja-F '65. (MIRA 18:4)

L 9795-66 EWT(d)/EWT(1)/EWT(m)/FS(v)-3/EEC(k)-2/ETC/EPF(n)-2/EWG(m)/EWA(d)/EWP(v)  
ACC NR: AP5026575 SOURCE CODE: UR/0281/65/000/005/0143/0150  
T-2/EWP(k)/EWA(h)/ETC(m) TT/WH/EM/GW 33  
AUTHOR: Stasenko, A. L. (Moscow) 20  
44, 55

ORG: none

TITLE: Effect of external radiation on the maximum characteristics of a belt  
radiator

SOURCE: AN SSSR. Izvestiya. Energetika i transport, no. 5, 1965, 143-150

TOPIC TAGS: belt radiator, space vehicle

ABSTRACT: Determination of characteristics of belt radiators intended for  
cooling space vehicles (L. Shipper et al., AIAA paper, 1963, no. 270; H. L.  
Burge, ARS, 1962, v. 32, no. 8) requires solving a complicated system that  
contains a nonlinear integrodifferential equation in two variables; the  
characteristics depend on many parameters. Hence, a simplified particular case

UDC: 536.3:535.34

Card 1/2

2

L 9795-66

ACC NR: AP5026575

of a "flattened" belt (ultimate shape of convex belts) obviating many mathematical difficulties is considered. The effects of (a) the uniform <sup>214955</sup> external radiation of constant intensity and (b) the blackness coefficients of both surfaces of the belt upon the belt characteristics (length, thickness, mass) are theoretically explored. It is found that the flat tape should be so positioned that the normal external radiation flux be zero or, if this is impossible, that the flux impinge downward. The minimum belt mass corresponds to the maximum blackness coefficient of the belt outer surface and zero coefficient of its inner surface. Orig. art. has: 9 figures and 24 formulas.

SUB CODE: 22 / SUBM DATE: 15Apr65 / ORIG REF: 001 / OTH REF: 004

OC  
Card 2/2

AVDEEV, F.I., inzh.; DAVIDSON, V.Ye., dotsent; ZHOLOB, V.M., inzh.;  
KOVAL'CHUK, V.N., inzh.; STASEV, A.A., inzh.; STASENKO, D.N., inzh.

Crushing of iron ore by normal impact against a metal barrier.  
Izv. vys. ucheb. zav.; ger. zhur. 8 no.1:142-145 '65. (MIRA 18:3)

I. Dnepropetrovskiy gosudarstvennyy universitet. Rekomendovana  
kafedroy aeromekhaniki i teorii uprugosti.

MEN'SHOV, A.A., kandidat meditsinskikh nauk; STASENKO, A.S.

Treatment of eczema with Dorogov's antiseptic stimulator. Vest.ven.  
i derm. 30 no.2:16-17 Mr-Ap '56. (MLRA 9:7)

1. Iz Kiyevskogo instituta gigiyeny truda i profzabolevaniy (dir.-  
dotsent L.I.Medved!) Kiyevskoy 4-y klinicheskoy bol'nitsy (dir.-  
kandidat meditsinskikh nauk A.G.Pap)

(ECZEMA, ther.

antiseptic & biol. stimulant of Dorogov)

(TISSUE THERAPY, in various dis.

eczema, antiseptic & biol. stimulant of Dorogov)

TSAREV, B.P., inzh.; STASENKO, I.K., inzh.; SHALANIN, P.D., inzh.;  
SOKOLOV, P.P., inzh.; TITOV, R.P., inzh.; YAKOBSON, R.V.,  
kand.tekhn.nauk; TITOV, S.N., kand.tekhn.nauk

Determining consolidated material consumption norms for  
locomotive and car repairs. Vest. TSNII MPS 20 no.6:62-64  
'61. (MIRA 14:10)

(Railroads—Repair shops)

KABENIN, N.G., kand.tekhn.nauk; STASENKO, I.K., inzh.; SHALANIN, P.~~...~~, inzh.

Methods for establishing expenditure norms for wheel pair parts in  
locomotive repair. Vest. TSNII MPS 22 no.2:35-39 '63.  
(MIRA 16:4)

(Locomotives—Maintenance and repair)

SOV/117-58-12-27/36

AUTHORS: Markhula, A.I. and Stasenko, I.S., Engineer

TITLE: A Fitter Innovator (Slesar'-ratsionalizator)

PERIODICAL: Mashinostroitel', 1958, Nr 12, p 36 (USSR)

ABSTRACT: This is a biographical note on Dmitriy Yosifovich Krentovskiy, fitter at the Gomel'skiy zavod sel'skokhozyaystvennykh mashin (Gomel' Plant of Agricultural Machines). There is 1 photo.

Card 1/1

STASENKO, I.V., assistant

Investigating stresses in a disk cutter. Izv.vys.ucheb.zav.; mashinostr.  
no.7:121-127 '60. (MIRA 13:11)

1. Moskovskoye vyssheye tekhnicheskoye uchilishe imeni Baumana.  
(Metal-cutting tools)

S/207/62/000/006/019/025  
E081/E135

AUTHOR: Stasenko, I.V. (Moscow)

TITLE: The axially symmetrical problem of the steady creep  
of a cylindrical shell

PERIODICAL: Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki,  
no.6, 1962, 115-117

TEXT: The problem relates to calculation of the creep strength  
in systems containing reducers and flanged connections; for  
example, steam pipes. The thin-walled cylindrical shell is  
assumed to be subjected to internal pressure, and to be clamped at  
one end. An expression is developed for the stored energy of the  
shell, and an integral equation is obtained corresponding to a  
power law relation between stress and plastic strain velocity,  
taking boundary effects into account. The solution of this  
equation is given in graphical form, and expressions are derived  
for the stresses in the cylinder.

There are 3 figures.

SUBMITTED: June 28, 1962

Card 1/1

STASENKO, I. V. (Moskva)

Creep of a cylindrical shell in the end-effect zone. Prykl.  
mekh. 8 no.6:665-670 '62. (MIRA 15:10)

1. Moskovskoye vyssheye tekhnicheskoye uchilishche im. Baumana.

(Elastic plates and shells)  
(Creep of materials)

S/096/63/000/002/008/013  
E195/E583

AUTHORS: Yakobson, S.S., Zemlyanskaya, L.L. and Stasenko, I.V.

TITLE: On the problem of performance of welded joints in steam-supply lines of electrical power stations

PUBLICAL: Teploenergetika, no. 2, 1963, 64 - 69

TEXT: Analysis of service failures of welded joints at steam-power plants shows that low plasticity of the welds, not low strength, is the cause of the formation of cracks. High plasticity of the weld can be ensured by using suitable welding electrodes; this, however, would be bound to produce welds with relatively low UTS and creep strength, whereas the criterion generally used in selecting welding electrodes for this application is that their UTS and creep strength should be at least equal to those of the base metal. These conflicting requirements pose a problem which in its general form can be stated as follows: is it permissible to replace a short length of a steam pipe by material with a strength lower than that of the remainder of the pipe? Analytical solution of this problem presents considerable difficulties and, so far, no general method of calculation, which takes into account all

Card 1/5

S/096/63/000/002/008/015  
E193/5385

on the problem of ....

the service loads acting on a steam pipe, has been developed. Any solution of this problem must take into account the difference in both the mechanical properties at room temperature and the resistance-to-creep of the weld and the base metal. When the creep-rate of the base metal is different from that of the weld, localized bending of the tube wall (the so-called 'edge effect') takes place in the welded zone. This effect can be analytically studied by using a step-by-step method in which the change in strain during a short time interval is determined from the state of stress at the moment immediately preceding the time interval under consideration, the resultant variation in stress being taken as proportional to the strain increment. Using this method, the present authors derived expressions with the aid of which stresses and strains in a tube in creep under a combined action of internal pressure and axial loads can be calculated. Although mathematically accurate, the method is cumbersome and requires the use of calculating machines. A simplified method of quantitative evaluation of stress and strain in a welded seam subject to both internal pressure and axial loads was also developed. Using this method, the authors

Card 2/5

On the problem of ....

S/096/63/000/002/008/013  
E193/E385

Showed that if the welding electrode were more plastic (and weaker) than the tube material, the circumferential stresses in the weld under conditions of steady creep were lower than those in the tube and the strain in the weld in creep due to the combined action of internal pressure and axial loads would be lower than that in a simple tensile test. There are 6 figures.

ASSOCIATION: MF Orgenergostroya - MVTU

Card 5/5

STASENKO, I.V., inzh.

Steady pipe creep in the area of a rigid flange. Vest.  
mashinostr. 43 no. 6:6-8 Je '63. (MIRA 16:7)

(Pipe—Testing) (Creep of steel)

SVETLITSKIY, V.A., kand. tekhn. nauk, dotsent; STASENKO, I.V., kand.  
tekhn. nauk, dotsent

Steady motion of an elastic thread unreeled from a bobbin.  
Izv.vys. ucheb. zav.; mashinostr. no.10:61-67 '64  
(MIRA 18:1)

1. Moskovskoye vyssheye tekhnicheskoye uchilishche imeni  
N.E.Baumana.

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001653010012-2

SVETLITSKIY, V.A., kand. tekhn. nauk; STASENKO, I.V., kand. tekhn. nauk;  
GABRYUK, V.I., inzh.

Steady motion and minor vibrations of an elastic string. Izv.  
vys. ucheb. zav.; mashinostr. no.2:57-67 '65.  
(MIRA 18:5)

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001653010012-2"

MAGUNOV, R.L. [Mahunov, R.L.]; TURKALOV, N.F.; ZAKOLODYAZHNAYA, O.V.  
[Zakolodiazhna, O.V.]; STASENKO, I.V.

Extraction of germanium from hydrochloric acid solutions by means  
of organic solvents. Khim.prom. [Ukr.] no.2:29-30 Ap-Je '65.  
(MIRA 18:6)

STASENKO, I.V., kand. tekhn. nauk

Creep of a thin-walled pipe under the action of internal  
pressure and bending. Izv. vys. ucheb. zav.; mashinostr.  
no. 7:58-61 '65. (MIRA 18:12)

1. Submitted October 31, 1964.

L 07132-67 ENT(k)/ENT(m)/ENT(u)/ENT(v)/ENT(t)/ENT IJP(c) JD/HM/HW  
ACC NR: AP60039219 (N) SOURCE CODE: UR/0145/66/000/004/0038/0043

AUTHOR: Stasenko, I. V. (Candidate of technical sciences)

38  
B

ORG: None

TITLE: Permanent strength of an annular welded joint

SOURCE: IVUZ. Mashinostroyeniye, no. 4, 1966, 38-43

TOPIC TAGS: weld evaluation, creep, metal stress, pipe

ABSTRACT: The author studies the effect of creep on the magnitude of peripheral stresses in an annular welded joint by considering the combined stationary creep of a joint and a thin-walled tube loaded by internal pressure. It is shown that a difference between the creep characteristics of the seam metal and the metal of the tube results in local bending of the tube walls in the weld zone — the so-called edge effect. The peripheral and axial stresses in this case are considerably dependent on the relationship between the creep characteristics of the seam metal and that of the tube and on the magnitude of the nominal peripheral stresses in the tube or seam. Recommendations are given on the selection of electrodes for welding pipes to be used at high temperatures. The article was presented for publication by Doctor of technical sciences, Professor S. D. Ponomarev, MVTU. Orig. art. has: 2 figures, 1 table, 13 formulas.

13/ SUB CODE: 11/ SUBM DATE: 17May65/ ORIG REF: 004/ OTH REF: 001

UDC: 621.791.5

Card 1/1

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001653010012-2

DRAKO, M.M.; SPASENKO, L.Y.

Materials on the nutrition of fishes in Lake Naroch'. Uch.zap.BGU  
no.76:III-121 '56. (MLHA 10:9)  
(Naroch', Lake--Fishes--Food)

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001653010012-2"

STASENKO, N. N.

"The Effect of the Light Regime and the Factors Related to It  
on the Internal Structure of Hemp Stalks, Their Fiber Content, and  
the Quality of Hemp on Peat-Marsh Soils." Gant Biol Sci, Belorussian  
State U imeni V. I. Lenin, Minsk, 1954. (KL, No 8, Feb 55)

SO: Sum. No 631, 26 Aug 55-Survey of Scientific and Technical  
Dissertations Defended at USSR Higher Educational Institutions  
(14)

STASENKO, N.N.

USSR/Cultivated Plants - Technical, Oil, and Sugar Plants.

M-4

Abs Jour : Ref Zhur - Biol., No 3, 1958, 10891

Author : Godneu, T.N., Stasenko, N.N.

Inst : -  
Title : The Growth and Development of Hemp as Affected by the  
Light Regime and Factors Connected with It.

Orig Pub : Izv. AN SSSR, ser. biol. n., 1956, No 4, 77-78

Abstract : In field experiments the light regime was varied by locating the plants differently over an area with the same sowing norm (120 kg./hectare). Ordinary sowing was tested, with the space between the rows at 8, 16, and 50 centimeters, and also belt sowings with the belts 16 centimeters wide and 50 centimeters between belts. Photometric measurements have demonstrated that increasing the space between rows intensifies the illumination received by each plant, but the consequent increase in the number of plants alters the conditions of growth. To avoid these secondary

Card 1/2

*STASENKO, N.M.*

I.

USSR/Plant Physiology - Water Regimen

Abs Jour : Ref Zhur - Biol., No 18, 1958, 82010

Author : Stasenko, N.N., Terentyev, V.M.

Inst : Institute of Biology, AS BSSR

Title : The Influence of the Soil Moisture on the Water Regime  
and on the Carbohydrous Exchange of Oat Plants

Orig Pub : Byul. In-ta biol. AN BSSR, vyp. 2, 1956 (1957), 100-106

Abstract : The types of water (according to the A.V. Dumanskiy method  
and the content of sugars (according to the Bertrand's  
method) were determined in the leaves of oats of the  
"Zolotoy dozhd'" (golden rain) variety. They were grown  
in vegetation vessels with peaty soil of the lowland ty-  
pe with a moisture of 50 to 75% of full capacity.  
Greater content of free water and a lesser amount of  
bound water were discovered. At the same time smaller

Card 1/2

STASENKO, N.N.

TERENT'YEV, V.M.; STASENKO, N.N.; KONOVALOVA, L.N.

Some specific features of the growth and development of cereal plants  
on peat soils. Biul. Inst. biol. AN BSSR no.2:94-99 '57. (MIRA 11:2)  
(Grain) (Peat soils)

TERENT'YEV, V.M.; STASENKO, N.N.

Disorders in the carbohydrate metabolism of barley plants caused by  
early lodging on peat soils [with summary in English]. Fiziol.  
rast. 5 no.3:259-263 Mr-Je '58. (MIRA 11:6)

1. Institut biologii AN BSSR, Minsk.  
(Barley)  
(Carbohydrate metabolism)  
(Peat soils)

TRENT'YEV, V.M.; STASENKO, N.N.; PETROVICH, Zh.I.

Duration of regeneration and transformation dynamics of hemi-celluloses in the barley stem. Biul. Inst. boil. AN BSSR  
no.5:149-156 '60. (MIRA 14:7)  
(HEMICELLULOSE) (BARLEY)

TERENT'YEV, V.M.; STASENKO, N.N.; PETROVICH, Zh.I.

Duration of the assimilation of C<sup>14</sup>O<sub>2</sub> and of the utilization  
of assimilates by aerial parts of barley in ontogenesis.  
Biul. Inst. biol. AN BSSR no.6:135-141 '61. (MIRA 15:3)  
(PLANTS—ASSIMILATION)

STASENKO, R., kand.sel'skokhoz.nauk

Redesigning pig sties for brood sows. Sil'. bud. 12 no.11:8-10  
N '62. (MIRA 15:12)  
(Swine houses and equipment)

STASENKO, R. F., Candidate Agric Sci (diss) -- "Differentiated feeding of pigs as a method of increasing their rate of maturation". Kiev, 1959. 18 pp  
(Min Agric Ukr SSR, Ukr Acad Agric Sci ) (KL, No 24, 1959, 146)

KVACHEV, G.S., kand.tekhn.nauk; MEL'NI<sup>CHENKO</sup>, G.I.; STASENKO, R.F.

A new drive for 10 kv. oil-filled switches. Energ.i elektrotekh.  
(MIRA 16:2)  
prom. no.4:45-48 O-D '62.

1. Ukrnigiprosel'elektro.  
(Electric switchgear) (Electric power distribution)

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001653010012-2

M. NIKHILOV, G.L., USSR; MIR MIKO, R.F., USSR.

PTW-2 drives for oil-filled switches. Energ. i elektrotekh. prom.  
no.4:38 O-D '64. (MIRA 18:3)

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001653010012-2"

STASENKO, Srdan

Production of PVC in the world is developing at an undiminished pace. Kem ind 12 no.3:178-180 Mr '63.

KNEREL', G.M.; STASENKO, V.F.

Saving electric energy in the Leningrad urban electric  
transportation system. Prom.energ. 16 no.9:1-5 S '61.  
(MIRA 14:8)  
(Leningrad--Transit systems)

STASENKO, YE. F.

578 Novoye v oplate truda chabanov. 12 opyba raboty kolkhoza im. Malenkova,  
Levokym. rayona. Stavrodol', kn. izd., 1954. 24s. so skhem. 20sm.  
3.000 ekz. 30k. - 54-551917 p 636.3.084.22(47.911)+331.20: 636.3  
47.9117

SO: Knizhnaya Letopis, Vol. 1, 1955

SARKIZOV-SERAZINI, Ivan Mikhaylovich, prof.; STASENKOVA, V.K., prof.;  
SEYKIN, M.I., dotsent [deceased]; VASIL'YEVA, V.Ye., dotsent;  
BERZIN, A.A., red.; SHPEKTOROVA, Ye.I., tekhn.red.

[Exercise therapy] Lechebnaia fizicheskaiia kul'tura. Izd.2.,  
ispr. i dop. Moskva, Gos.izd-vo "Fizkul'tura i sport," 1960.  
389 p. (MIRA 13:10)

(EXERCISE THERAPY)

STASENKOV, V. V., Candidate Geolog-Mineralog Sci (diss) -- "A study of the oil yield of the deposits of Krasnodar Kray on the basis of analysis of geological-industrial materials". Moscow, 1959. 16 pp (Gosplan USSR, Main Admin of Sci Res and Design Organizations, All-Union Petroleum and Gas Sci Res Inst VNII), 150 copies (KL, No 25, 1959, 129)

STASENKO, V.V.

Determination of the recovery factor of thin layers based on  
field data as exemplified by the Shirokaya Balka area in Krasnodar  
Territory. Trudy VNII no.20:106-116 '59. (MIRA 12:10)

(Krasnodar Territory--Petroleum geology)

TROFIMUK, A.A.; LISUNOV, V.R.; STASENKOV, V.V.

Field calculations of oil recovery. Trudy VNII no.24:103-128  
'59. (MIRA 13:5)  
(Petroleum geology)

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001653010012-2

STASENKOV, V.V.

Determination of the oil recovery based on oil field data. Trudy  
VNII no.23:84-92 '60.  
(Petroleum geology)

(MIRA 13:11)

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001653010012-2"

STASENKOV, V.V.; SIRYK, I.M.; RAZUMOV, N.V.

Oil and gas potentials of the western edge of the central Sakhalin synclinorium. Geol.i geofiz. no.12:7-13 '61. (MIKA 15;5)

1. Sakhalinskiy kompleksnyy nauchno-issledovatel'skiy institut,  
g. Novo-Aleksandrovsk,  
(Sakhalin--Petroleum geology)  
(Sakhalin--Gas, Natural--Geology)

STASENKOV, V.V.

Conditions of the formation of oil and gas pools of the Sabo  
field. Geol. i geofiz. no.8:121-128 '62. (MIRA 15:10)

1. Sakhalinskiy kompleksnyy nauchno-issledovatel'skiy institut  
Sibirskogo otdeleniya AN SSSR, p. Novo-Aleksandrovka.  
(Sabo region—Petroleum geology) (Sabo region—Gas, Natural—Geology)